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US 6324091 B1

US 6272038 B1

US 6212093 B1

US 6208553 B1

US 5011756 A

US 4825408 A

US 4684598 A

US 4663270 A

US 6272038 B

WO 200152266 A

US 6208553 B

FIG. 9

1. $\text{BF}_3 \cdot \text{OEt}_2$, NH_4Cl , MeCN
2. DDQ

1. $\text{Zn}(\text{OAc})_2 \cdot 2\text{H}_2\text{O}$, CH_2Cl_2

Zn-1

Ready NUM

Potember et al. [40] Date of Patent Apr. 25, 1999

[34] MULTIRESTATE OPTICAL SWITCHING AND MEMORY APPARATUS USING AN AMPHIPHILIC ORGANIC CHARGE TRANSFER MATERIAL

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[21] Appl. No.: 08/437

[22] Filed: Apr. 7, 1997

Related U.S. Application Data

[35] Division of Ser. No. 084,711, Apr. 24, 1994, Pat. No. 4,460,370

[31] Int. Cl.⁶ G11C 16/00; G11B 5/70; G03C 1/00; G03C 1/00

[32] U.S. Cl. 463/119; 343/154; 243/111; 492/493

[33] Field of Search 243/111, 114, 115; 492/493

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[57] ABSTRACT

The charge transfer apparatus of the present invention comprises an optical storage medium of either a mixture of several charge transfer compounds of varying redox potential or a single amphiphilic organic charge transfer compound capable of undergoing a multistage charge transfer reaction, and a source of optical energy, typically a laser. When the optical energy illuminates a spot on the optical storage medium, the spot switches to one of a plurality of optically detectable states.

72 Claims, 8 Drawing Sheets



EAST Browser - L5: (14) 4 and molecule | US 6451942 | Tag: 5 | Doc: 2/14 | "Full" 3/85 (Total images 85)

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US 6451942 B1

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8	US 5011756 A		USPAT
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10	US 4684598 A		USPAT
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14	US 6208553 B		DERWENT

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U.S. Patent Sep. 17, 2002 Sheet 1 of 46 US 6,451,942 B1

FIG. 1

Details Text Image HTML Full

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